

September 9, 2002

TO: Hien^u Phan, Art Unit 3738
CP2, Room 2-D-19

FROM: Jeanne Horrigan, EIC-3700 JH

SUBJECT: Search Results for Serial #09/446629

Attached are the search results for the "Shaped Products or Structures for Medical or Related Purposes," including results of prior art and inventor searches in foreign patent databases, and prior art searches in medical and general sci/tech non-patent databases.

In the results, a highlighted line marks the end of a search, including the search strategy, in a particular set of databases and the beginning of a new search in a different set of databases.

I did not find much under the name "acropora grandis" but I found several items under "acropora." I tagged the items that seemed to me to be most relevant, but **I suggest that you review all of the results.**

Also attached is a "*Search Results Feedback Form*." Your feedback will help enhance our search services.

I hope these results are useful. Please let me know if you would like me to expand or modify the search or if you have any questions.

I also searched the Web using Google & Scirus search engines.

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Hien Phan Examiner #: 76602 Date: 08/26/99
 Art Unit: 3723 Phone Number 308-8969 Serial Number: 097446,629
 Mail Box and Bldg/Room Location: CP2-2019 Results Format Preferred (circle): (PAPER) DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Shaped products or structures for Medical use
 Inventors (please provide full names): Razi Vago

Earliest Priority/Filing Date: 7/10/97

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

A shaped product or structure for medical related purposes wherein said product or structure is formed of a coral of the species Aleropora grandis.

STAFF USE ONLYSearcher: JEANNE HARRIGANSearcher Phone #: 305-5934Searcher Location: CP2-2008Date Searcher Picked Up: 9/9Date Completed: 9/9Searcher Prep & Review Time: 95

Clerical Prep Time: _____

Online Time: 30**Type of Search**

NA Sequence (#) _____

AA Sequence (#) _____

Structure (#) _____

Bibliographic ☒

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost where applicableSTN /Dialog /

Questel/Orbit _____

Dr.Link _____

Lexis/Nexis _____

Sequence Systems _____

WWW/Internet /

Other (specify) _____

1/26, TI/1 (Item 1 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
014213949

WPI Acc No: 2002-034647/200204

Storage system for storing biological material, includes a computer controlled robotic arm system for automatic insertion and retrieval of samples from storage units

1/26, TI/2 (Item 2 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
013912255

WPI Acc No: 2001-396468/200142

Quality control method for use in conveyance of biological specimen, involves tracking changes in temperature of vial temporary storage holder upon removing holder from cryogenic transport container

1/26, TI/4 (Item 4 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
012125457

WPI Acc No: 1998-542369/199846

Cryogenic storage installation - has carrier disposed inside chamber supporting specimens in predetermined array with access port having opening and plug removably located in

1/26, TI/5 (Item 5 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
011491574

WPI Acc No: 1997-469479/199743

Ultrasonic cleaning of animate and inanimate objects including humans - in a bathtub filled with water, using ultrasonic vibrations with a power density less than 5 watts per square centimetre

1/26, TI/6 (Item 6 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
010339817

WPI Acc No: 1995-241899/199532

Side entry bath tub - having stationary and moving sections where movable section can pivot away from stationary permitting entry to tub and back again to form tub enclosure

1/26, TI/7 (Item 7 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
010223113

WPI Acc No: 1995-124368/199517

Ultrasonic equipment mfg method for animal treatment - mounting ultrasonic transducer to container holding fluid for applying ultrasonic waves with two different power densities for sterilising fluid before animal enters tub

1/26, TI/8 (Item 8 from file: 350)
DIALOG(R) File 350: Derwent WPIX

(c) 2002 Thomson Derwent. All rts. reserv.
010223112

WPI Acc No: 1995-124367/199517

Ultrasonic equipment for treatment of humans and animals - applies waves of two different selected power density and frequency ranges to water in tub in vicinity of patient

1/26, TI/9 (Item 9 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2002 Thomson Derwent. All rts. reserv.
009942334

WPI Acc No: 1994-210047/199426

Sterilisation and cleaning using ultrasonic waves - transmitted through liquid at frequency and with a power to remove unwanted material and lyse microbes

1/26, TI/10 (Item 10 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2002 Thomson Derwent. All rts. reserv.
009854387

WPI Acc No: 1994-134243/199416

Ultrasonic treatment system for cleaning inanimate object and for animal and human therapy - has body immersed in working fluid where ultrasonic waves are applied in 15 kHz to 500 kHz range, and reducing thermal layering by adding surfactant

1/26, TI/11 (Item 11 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2002 Thomson Derwent. All rts. reserv.
008089182

WPI Acc No: 1989-354294/198948

Ultrasonic treatment for animal hygiene or therapy - by transmitting ultrasonic vibrations through working fluid to sterilise fluid and, at reduced power, to treat animal

1/26, TI/12 (Item 12 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2002 Thomson Derwent. All rts. reserv.
008022183

WPI Acc No: 1989-287295/198940

Ultrasonic treatment method - applying ultrasonic waves with two power densities in vicinity of portion

1/26, TI/13 (Item 13 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2002 Thomson Derwent. All rts. reserv.
007985595

WPI Acc No: 1989-250707/198935

Ambulatory patient bathing system - has drive device with stationary base with vertical pivot shaft for pivoting tub horizontally

1/26, TI/14 (Item 14 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2002 Thomson Derwent. All rts. reserv.
002163701

WPI Acc No: 1979-J3647B/197939

Portable bath tub esp. for invalids - has frame consisting of upright

corner posts having wheels, and body supporting platform tiltably
cantilevered over tub

1/26, TI/15 (Item 15 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
002157364

WPI Acc No: 1979-H7307B/197936

Therapeutic and rehabilitating mobile chair - has back-support, activity table
and limb positioning and restraining members holdable in set positions by lock
mechanism

1/7/3 (Item 3 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
012314421 **Image available**
WPI Acc No: 1999-120527/199910

Prosthesis, implant, other medical product or structure - is made of coral
Patent Assignee: AUSTRALIAN INST MARINE SCI (AUMA-N); AUSTRALIAN INST
MARINE SCIENCE (AUMA-N)

Inventor: VAGO R

Number of Countries: 083 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9902200	A1	19990121	WO 98AU519	A	19980706	199910 B
AU 9881990	A	19990208	AU 9881990	A	19980706	199924
EP 994735	A1	20000426	EP 98931822	A	19980706	200025
			WO 98AU519	A	19980706	
NZ 502022	A	20001222	NZ 502022	A	19980706	200104
			WO 98AU519	A	19980706	
AU 731916	B	20010405	AU 9881990	A	19980706	200125
JP 2001509422	W	20010724	WO 98AU519	A	19980706	200147
			JP 2000501790	A	19980706	

Priority Applications (No Type Date): AU 977706 A 19970707; AU 977705 A
19970707

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 9902200	A1	E	31	A61L-027/00	
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Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU
CZ DE DK EE ES FI GB GE GH GM HU ID IL IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT UA UG US UZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

AU 9881990	A				Based on patent WO 9902200
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EP 994735	A1	E		A61L-027/00	Based on patent WO 9902200
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Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
LU MC NL PT SE

NZ 502022	A			A61L-027/00	Based on patent WO 9902200
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AU 731916	B			A61L-027/00	Previous Publ. patent AU 9881990
-----------	---	--	--	-------------	----------------------------------

Based on patent WO 9902200

JP 2001509422	W		32	A61L-027/00	Based on patent WO 9902200
---------------	---	--	----	-------------	----------------------------

Abstract (Basic): WO 9902200 A

A shaped product or structure made from coral and used for medical
applications. The coral may be of the species Porites, Acropora and an
antibiotic or bone ingrowth promoter is adsorbed or bound to it. The

product may be a cylinder, sleeve, pin, screw, bolt, nut, spacer or plate.

USE - The product is useful as a prosthesis, implant, etc.

ADVANTAGE - The coral interacts with living bone tissue and modulates bone formation and repair.

Dwg.1A/2

Derwent Class: B07; C07; D21; D22; P34

International Patent Class (Main): A61L-027/00

International Patent Class (Additional): A61L-031/00

File 350:Derwent WPIX 1963-2002/UD,UM &UP=200257

File 344:Chinese Patents Abs Aug 1985-2002/Aug

File 347:JAPIO Oct 1976-2002/May(Updated 020903)

File 371:French Patents 1961-2002/BOPI 200209

Set	Items	Description
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S1	15	AU='VAGO R':AU='VAGO R E'
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S2	1127	CORAL OR ACROPORA()GRANDIS
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S3	1	S1 AND S2 [a duplicate]
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File 348:EUROPEAN PATENTS 1978-2002/Sep W01

File 349:PCT FULLTEXT 1983-2002/UB=20020905,UT=20020829

Set	Items	Description
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S1	2	AU='VAGO RAZI':AU='VAGO RAZO' [duplicates]
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6/6,K/1 (Item 1 from file: 5)

DIALOG(R)File 5:(c) 2002 BIOSIS. All rts. reserv.

09504887 BIOSIS NO.: 199497513257

A non-destructive method for monitoring coral growth affected by anthropogenic and natural long term changes.

1994

AUTHOR: Vago R ...

...ABSTRACT: lead to severe degradation in the viability of aquatic ecosystems. The excessive demands under which coral reef communities are being placed may soon result in the failure and dysfunction of these ...
...to the urgent need for establishing long-term monitoring programs. It has been suggested that coral growth characteristics can serve as biosensors for environmental variables. We therefore propose an in situ method for recording the growth of transplanted and intact coral colonies. The technique permits a facile, highly reproducible and non-destructive long-term monitoring operation.

6/6,K/2 (Item 2 from file: 5)

DIALOG(R)File 5:(c) 2002 BIOSIS. All rts. reserv.

09393274 BIOSIS NO.: 199497401644

Effect of ammonium enrichment on respiration, zooxanthellar densities, and pigment concentrations in two species of Hawaiian corals.

1994

...AUTHOR: Vago Razi

...ABSTRACT: mu-M and 50 mu-M) in microcosm tanks. Nubbins represent replicates of a single coral colony We examined the effect of ammonium enrichment on zooxanthellar densities, pigment concentrations, and respiration...

6/6,K/3 (Item 3 from file: 5)

DIALOG(R)File 5:(c) 2002 BIOSIS. All rts. reserv.
09321430 BIOSIS NO.: 199497329800
Computerized tomography and image analysis: A tool for examining the
skeletal characteristics of reef-building organisms.
1994

AUTHOR: Vago R ...
...ABSTRACT: skeleton. A high proportion of the bladed morphotypes was
found to be infested by the coral -inhabiting barnacle Savignium
milleporum. The barnacles were embedded in the host skeleton, enhancing
skeletal deformation.

6/6,K/4 (Item 1 from file: 73)
DIALOG(R)File 73:(c) 2002 Elsevier Science B.V. All rts. reserv.
06808612 EMBASE No: 1997091100
Laser measurements of coral growth (11)
1997
Vago R. ; Gill E.; Collingwood J.C.
DRUG DESCRIPTORS:* coral

File 155:MEDLINE(R) 1966-2002/Sep W1
File 5:Biosis Previews(R) 1969-2002/Sep W1
File 73:EMBASE 1974-2002/Aug W4
File 34:SciSearch(R) Cited Ref Sci 1990-2002/Sep W2
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

Set	Items	Description
S1	26	AU='VAGO R':AU='VAGO RAZI'
S2	14	RD (unique items)
S3	24481	CORAL OR ACROPORA()GRANDIS
S4	11	S2 AND S3
S5	7	S4/2002 OR S4/2001 OR S4/2000 OR S4/1999 OR S4/1998
S6	4	S4 NOT S5

2/6/1 (Item 1 from file: 144)
13085297 PASCAL No.: 97-0380059
High temperature induces the synthesis of heat-shock proteins and the
elevation of intracellular calcium in the coral Acropora grandis
1997

2/6/2 (Item 1 from file: 5)
11812105 BIOSIS NO.: 199900058214
The subcellular mechanism of the release of zooxanthellae during coral
bleaching.
1998

2/6/3 (Item 2 from file: 5)
06255836 BIOSIS NO.: 000086090019
SEXUAL REPRODUCTION OF CORALS IN OKINAWA JAPAN
1988

File 155:MEDLINE(R) 1966-2002/Sep W1
File 144:Pascal 1973-2002/Sep W2
File 5:Biosis Previews(R) 1969-2002/Sep W1
File 6:NTIS 1964-2002/Sep W3
File 8:Ei Compendex(R) 1970-2002/Sep W1
File 99:Wilson Appl. Sci & Tech Abs 1983-2002/Jul

File 238:Abs. in New Tech & Eng. 1981-2002/Aug
File 65:Inside Conferences 1993-2002/Sep W2
File 77:Conference Papers Index 1973-2002/Sep
File 73:EMBASE 1974-2002/Aug W4
File 34:SciSearch(R) Cited Ref Sci 1990-2002/Sep W2
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
File 94:JICST-EPlus 1985-2002/Jul W2
File 35:Dissertation Abs Online 1861-2002/Aug
Set Items Description
S1 5 ACROPORA()GRANDIS
S2 3 RD (unique items)

2/6,K/1 (Item 1 from file: 98)
DIALOG(R)File 98:(c) 2002 The HW Wilson Co. All rts. reserv.
04016773 H.W. WILSON RECORD NUMBER: BGS199016773 (USE FORMAT 7 FOR FULLTEXT)
Organism responses to rapid change: what aquaria tell us about nature
WORD COUNT: 7611
Feb. 1999 (19990200)
TEXT:
... In 1995, while in the Solomon Islands, we maintained four, 5 cm
fragments of *Acropora grandis*, and *A. latistella* for 18 days in a
4-liter, clear plastic container. The corals...in the same aquarium with
corals obtained from wave-swept fore-reef environments, e.g., *Acropora*
grandis ...

2/6,K/2 (Item 2 from file: 98)
DIALOG(R)File 98:(c) 2002 The HW Wilson Co. All rts. reserv.
04016772 H.W. WILSON RECORD NUMBER: BGS199016772 (USE FORMAT 7 FOR FULLTEXT)
The physiological mechanisms of acclimatization in tropical reef corals.
WORD COUNT: 9106
Feb. 1999 (19990200)
TEXT:
... *M. annularis* (hsp 70; Hayes and King, 1995), *M. franksi* (hsp 70;
Fig. 1) and *Acropora grandis* (hsp 35, 60 and 70; Fang et al., 1997).
Interestingly, intertidal *G. djiboutiensis* exhibit high...the synthesis of
heat-shock proteins and the elevation of intracellular calcium in the coral
Acropora grandis. Coral Reefs 16:127-131.
Falkowski, P. G., P. L. Jokiel, and R. A. Kinzie...

2/6,K/3 (Item 3 from file: 98)
DIALOG(R)File 98:(c) 2002 The HW Wilson Co. All rts. reserv.
03510724 H.W. WILSON RECORD NUMBER: BGSA97010724
Laser measurements of coral growth.
Mar. 6 1997 (19970306)
...ABSTRACT: coral. Linear extension of the tips of branches of the Great
Barrier Reef staghorn coral (*Acropora grandis* Brook) was determined by
measuring changes in the distances between lines in the diffraction pattern...
DESCRIPTORS: ...Invertebrates; *Acropora grandis*; Lasers...

2/6,K/4 (Item 1 from file: 88)
DIALOG(R)File 88:(c) 2002 The Gale Group. All rts. reserv.
06035971 SUPPLIER NUMBER: 81891793
Competition for space among sessile marine invertebrates: Changes in HSP70
expression in two pacific cnidarians.
Dec, 2001

WORD COUNT: 7091 LINE COUNT: 00586

... al., 1994). HSP60 has known roles in thermal acclimation of the cnidarians *Hydra vulgaris* and *Acropora grandis* (Bosch et al., 1988; Fang et al., 1997). The use of SPA-822 HSP70 antiserum...the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral *Acropora grandis*. Coral Reefs 16: 127-131.

Feder, M. E., and G. E. Hofmann. 1999. Heat-shock...

2/6,K/5 (Item 2 from file: 88)

DIALOG(R)File 88:(c) 2002 The Gale Group. All rts. reserv.

04274915 SUPPLIER NUMBER: 19465035

Laser measurements of coral growth.

March 6, 1997

ABSTRACT: An underwater laser apparatus was used to measure skeletal extension in the staghorn coral *Acropora grandis* Brook. Branches of coral were placed inside short plastic tubings and remained undisturbed for at...

File 98:General Sci Abs/Full-Text 1984-2002/Jul

File 9:Business & Industry(R) Jul/1994-2002/Sep 06

File 16:Gale Group PROMT(R) 1990-2002/Sep 09

File 160:Gale Group PROMT(R) 1972-1989

File 148:Gale Group Trade & Industry DB 1976-2002/Sep 09

File 621:Gale Group New Prod.Annou.(R) 1985-2002/Sep 06

File 636:Gale Group Newsletter DB(TM) 1987-2002/Sep 09

File 95:TEME-Technology & Management 1989-2002/Sep W2

File 441:ESPICOM Pharm&Med DEVICE NEWS 2002/Sep W1

File 20:Dialog Global Reporter 1997-2002/Sep 09

File 813:PR Newswire 1987-1999/Apr 30

File 15:ABI/Inform(R) 1971-2002/Sep 09

File 88:Gale Group Business A.R.T.S. 1976-2002/Sep 06

File 442:AMA Journals 1982-2002/Aug B1

File 444:New England Journal of Med. 1985-2002/Sep W2

File 149:TGG Health&Wellness DB(SM) 1976-2002/Sep W1

Set Items Description

S1 5 ACROPORA()GRANDIS

S2 5 RD (unique items)

File 350:Derwent WPIX 1963-2002/UD,UM &UP=200257

File 344:Chinese Patents Abs Aug 1985-2002/Aug

File 347:JAPIO Oct 1976-2002/May(Updated 020903)

File 371:French Patents 1961-2002/BOPI 200209

Set Items Description

S1 0 ACROPORA()GRANDIS

File 348:EUROPEAN PATENTS 1978-2002/Sep W01

File 349:PCT FULLTEXT 1983-2002/UB=20020905,UT=20020829

Set Items Description

S1 1 ACROPORA()GRANDIS [a duplicate]

1/7/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2002 Thomson Derwent. All rts. reserv.

013360953

WPI Acc No: 2000-532892/200048

Novel pigment protein derived from corals capable of emitting
fluorescence upon irradiation by incident light useful as tissue marker,
fluorescent marker or general dyestuff

Patent Assignee: UNIV SYDNEY (UNSY)

Inventor: DOVE S; HOEGH-GULDBERG O

Number of Countries: 091 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200046233	A1	20000810	WO 2000AU56	A	20000202	200048 B
AU 200026483	A	20000825	AU 200026483	A	20000202	200059
EP 1155028	A1	20011121	EP 2000904699	A	20000202	200176
			WO 2000AU56	A	20000202	
CN 1345330	A	20020417	CN 2000805766	A	20000202	200248

Priority Applications (No Type Date): AU 998463 A 19990202

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200046233	A1	E	49	C07H-021/04	
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Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 200026483	A			C07H-021/04	Based on patent WO 200046233
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EP 1155028	A1	E		C07H-021/04	Based on patent WO 200046233
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

CN 1345330	A			C07H-021/04	
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Abstract (Basic): WO 200046233 A1

NOVELTY - A protein (I) comprising the N-terminal amino acid
sequence of SVIAK or SVIAKQMTYKVYMSGTVN in a substantial purified form,
or a fully defined *Acropora aspera* protein sequence of 231 (S1) or
235 amino acids as given in the specification, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
following:

(1) an isolated polynucleotide molecule (II) comprising a
nucleotide sequence encoding a pigment protein from coral tissue (PPCT)
(I) capable of emitting fluorescence upon irradiation by incident light
whose maximal absorbance is in the range of 320-600 nm and a maximal
fluorescence emission is in the range of 300-700 nm;

(2) a vector (III) comprising (II);

(3) a host cell (IV) transfected or transformed with (III);

(4) preparation of (I);

(5) an oligonucleotide probe or primer (V) comprising a nucleotide
sequence that hybridizes selectively to (II);

(6) use of (I) as a tissue marker, fluorescent marker or general
dye stuff;

(7) a sunscreen formulation comprising (I); and

(8) a filter (VI) for screening UV or other wavelength(s) of
incident light comprising (I).

USE - (I) is used as a tissue marker, fluorescent marker or general
dyestuff (all claimed). The protein could be used as a marker for
following gene expression in transformed tissues. Product may be used
in sunscreen formulations or UV filters (both claimed).

pp; 49 DwgNo 0/10

Derwent Class: B04; D16; D21; E14
International Patent Class (Main): C07H-021/04
International Patent Class (Additional): A61K-007/42; A61P-043/00;
C07K-014/435; C12N-015/12; C12N-015/74

File 350:Derwent WPIX 1963-2002/UD,UM &UP=200257
File 344:Chinese Patents Abs Aug 1985-2002/Aug
File 347:JAPIO Oct 1976-2002/May(Updated 020903)
File 371:French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	2	ACROPORA

3/3,AB/1 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2002 WIPO/Univentio. All rts. reserv.

00405433

IMPROVED POROUS BIOMATERIALS AND METHODS FOR THEIR MANUFACTURE
BIOMATERIAUX POREUX AMELIORES, ET PROCEDES DE PRODUCTION ASSOCIES

Patent Applicant/Assignee:

INTERPORE INTERNATIONAL,

Inventor(s):

WHITE Eugene W,
DEBES Jack C,
HARRIS Clayton G,
SHORS Edwin C,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9746178 A1 19971211

Application: WO 97US9436 19970603 (PCT/WO US9709436)

Priority Application: US 96659879 19960607

Designated States: AU BR CA CN IL JP KR MX AM AZ BY KG KZ MD RU TJ TM AT BE
CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 6581

English Abstract

An improved porous ceramic biomaterial is disclosed in which a polymer such as polylactic acid is polymerized in situ to fill the micropores substantially without filling the macropores. The polymer reinforcement helps improve the strength of the implant while preserving its ability to support ingrowth of bone to help integrate the implant into its surgical environment.

3/3,AB/2 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2002 WIPO/Univentio. All rts. reserv.

00295617

OSTEOGENIC PRODUCT AND PROCESS
PRODUIT OSTEOGENE ET SON PROCEDE D'UTILISATION

Patent Applicant/Assignee:

INTERMEDICS ORTHOPEDICS DENVER INC,

Inventor(s):

POSER James William,
BENEDICT James John,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9513767 A1 19950526

Application: WO 94US13351 19941115 (PCT/WO US9413351)

Priority Application: US 93519 19931116
Designated States: CA JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
Publication Language: English
Fulltext Word Count: 7768
English Abstract

Disclosed is a product which includes calcium carbonate and bone growth factor useful for the promotion of bone formation when implanted in the body. The calcium carbonate is preferably in the form of aragonite which can be recovered from naturally occurring coral. A preferred bone growth factor of the present invention is a protein mixture purified from bone. Also disclosed is a process for the induction of bone formation which includes implanting the product in a body. The product and process of the present invention are particularly useful in hip replacement operations, knee replacement operations, spinal fusion operations, repair of periodontal defects, treatment of osteoporosis, repair of bone tumor defects and repair of bone fractures.

4/26,TI/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2002 European Patent Office. All rts. reserv.
00666310

USE OF PARTICLES OF A BIOCOMPATIBLE, BIOABSORBABLE CALCIUM SALT AS ACTIVE PRINCIPLE IN THE PREPARATION OF A MEDICAMENT FOR LOCAL TREATMENT OF BONE DEMINERALIZING DISEASES

4/26,TI/5 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00733246
PIGMENT PROTEIN FROM CORAL TISSUE
Publication Year: 2000

4/26,TI/6 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00494461
METHOD FOR INDUCING OSTEOBLAST DIFFERENTIATION OF HUMAN EXTRAMEDULLARY ADIPOSE TISSUE CELLS
Publication Year: 1999

4/26,TI/8 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00423594
ROTATING AQUARIUM
Publication Year: 1998

4/26,TI/10 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00278146
USE OF A CALCIUM CARBONATE BASED POROUS MATERIAL AS SUPPORT FOR A GROWTH FACTOR IN THE PREPARATION OF A BIOABSORBABLE IMPLANT
Publication Year: 1994

4/26,TI/11 (Item 7 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00278107

USE OF PARTICLES OF A BIOCOMPATIBLE, BIOABSORBABLE CALCIUM SALT AS ACTIVE
PRINCIPLE IN THE PREPARATION OF A MEDICAMENT FOR LOCAL TREATMENT OF
BONE DEMINERALIZING DISEASES

Publication Year: 1994

4/26,TI/12 (Item 8 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00227932

USE OF POROUS CALCIUM CARBONATE AS A SUPPORT MATERIAL FOR IN VITRO CELL
CULTURE

Publication Year: 1993

4/26,TI/13 (Item 9 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00129843

ULTRA VIOLET AGENTS

Publication Year: 1986

4/3/1 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00874487

MACROPOROUS COMPOSITE FOR CARRYING ONE OR MORE MEDICINAL SUBSTANCES AND FOR
USE AS A BONE RECONSTRUCTION MATERIAL, AND METHOD FOR MAKING SAME
MAKROPOROSSES KOMPOSIT ALS TRAGERSUBSTANZ FUR MEDIKAMENTE UND ZUR VERWENDUNG
ALS KNOCHENERSATZMATERIAL

COMPOSITE MACROPOREUX SUPPORT DE SUBSTANCE(S) MEDICAMENTEUSE(S) UTILISABLE
COMME MATERIAU DE RECONSTITUTION OSSEUSE ET PROCEDE D'ELABORATION

PATENT ASSIGNEE:

UNIVERSITE DE RENNES I, (682241), 2, rue du Thabor, F-35000 Rennes, (FR),
(Proprietor designated states: all)

INVENTOR:

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CAREL, Claude, 27A, cours Rapha l-Binet, F-35000 Rennes, (FR)

LEGAL REPRESENTATIVE:

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Cedex 7, (FR)

PATENT (CC, No, Kind, Date): EP 1019108 A1 000719 (Basic)

EP 1019108 B1 020502

WO 9726024 970724

APPLICATION (CC, No, Date): EP 97900225 970102; WO 97FR7 970102

PRIORITY (CC, No, Date): FR 96560 960115

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; GB; GR; IE; IT; LI; LU; MC;
NL; PT; SE

INTERNATIONAL PATENT CLASS: A61L-027/00

CITED PATENTS (EP B): EP 22724 A; EP 159087 A; EP 395187 A; WO 87/07826 A;

WO 94/26322 A; US 3890107 A

NOTE: No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 000719 A1 Published application with search report
Application: 971015 A1 International application (Art. 158(1))
Grant: 020502 B1 Granted patent
Examination: 000719 A1 Date of request for examination: 19980702
Examination: 010725 A1 Date of dispatch of the first examination
report: 20010607

LANGUAGE (Publication,Procedural,Application): French; French; French

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200218	381
CLAIMS B	(German)	200218	368
CLAIMS B	(French)	200218	356
SPEC B	(French)	200218	2876
Total word count - document A			0
Total word count - document B			3981
Total word count - documents A + B			3981

4/3,AB/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00395886

Coated biomaterials and methods for making same

Beschichtete Biomaterialien und Verfahren zu ihrer Herstellung

Biomateriaux revetus et leur procede de fabrication

PATENT ASSIGNEE:

INTERPORE INTERNATIONAL, (943980), 18008 Skypark Circle, Irvine
California 92714, (US), (applicant designated states:
AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

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Shors, Edwin C., 6520 Via Siena, Rancho Palos Verdes, California 90272,
(US)

LEGAL REPRESENTATIVE:

Smulders, Theodorus A.H.J., Ir. et al (21191), Vereenigde Octrooibureaux
Nieuwe Parklaan 97, NL-2587 BN 's-Gravenhage, (NL)

PATENT (CC, No, Kind, Date): EP 395187 A2 901031 (Basic)
EP 395187 A3 910724
EP 395187 B1 960124

APPLICATION (CC, No, Date): EP 90201079 900427;

PRIORITY (CC, No, Date): US 345194 890428

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: A61L-027/00;

CITED PATENTS (EP A): EP 278583 A; EP 22724 A; FR 2223325 A; EP 159087 A;
WO 8601726 A; EP 230570 A

CITED REFERENCES (EP A):

WORLD PATENT INDEX (LATEST) accession no. 84-259285, week 42, Derwent
Publications Ltd, London, GB; & JP-A-59 156 488 (KURITA WATER IND.
K.K.) 05-09-1984;

ABSTRACT EP 395187 A2

Biomaterials useful for onthopedicanel dental applications is
disclosed. These materials have a base portion of calcium carbonate and a
surface layer of a synthetic phosphate such as hydroxyapatite. The base
portion may be a calcium carbonate structure having three-dimensional
interconnected porosity such as may be found in porous skeletal carbonate
of marine life, e.g. coral porites skeletal aragonite, or it may be

porous or non-porous granules of calcium carbonate.

A method for making the biomaterials is also disclosed. The synthetic phosphate surface is made using a hydroconversion reaction with a soluble or solubilized phosphate such as ammonium dibasic phosphate ((NH(sub

4))(sub 2)HPO(sub 4)).

ABSTRACT WORD COUNT: 107

4/3,AB/7 (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00471266

a duplicate of 1/7/3 on page 3

SHAPED PRODUCTS OR STRUCTURES FOR MEDICAL OR RELATED PURPOSES
PRODUITS OU STRUCTURES FORMES POUR APPLICATIONS MEDICALES

Patent Applicant/Assignee:

AUSTRALIAN INSTITUTE OF MARINE SCIENCE,

VAGO Razo,

Inventor(s):

VAGO Razo,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9902200 A1 19990121

Application: WO 98AU519 19980706 (PCT/WO AU9800519)

Priority Application: AU 977706 19970707; AU 977705 19970707

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES

FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD

MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US

UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE

CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN

ML MR NE SN TD TG

Main International Patent Class: A61L-027/00

International Patent Class: A61L-031/00

Publication Language: English

Fulltext Word Count: 4533

English Abstract

A shaped product or structure, including a prosthetic or implant device, for medical or related purposes is characterised in that it is formed from coral.

4/3,AB/9 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00385281 **Image available**

MACROPOROUS COMPOSITE FOR CARRYING ONE OR MORE MEDICINAL SUBSTANCES AND FOR USE AS A BONE RECONSTRUCTION MATERIAL, AND METHOD FOR MAKING SAME
COMPOSITE MACROPOREUX SUPPORT DE SUBSTANCE(S) MEDICAMENTEUSE(S) UTILISABLE COMME MATERIAU DE RECONSTITUTION OSSEUSE ET PROCEDE D'ELABORATION

Patent Applicant/Assignee:

UNIVERSITE DE RENNES 1,

LUCAS Anita,

MICHEL Jean-Francois,

GAUDE Jean,

CAREL Claude,

Inventor(s):

LUCAS Anita,

MICHEL Jean-Francois,

GAUDE Jean,

CAREL Claude,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9726024 A1 19970724
Application: WO 97FR7 19970102 (PCT/WO FR9700007)
Priority Application: FR 96560 19960115

Designated States: AL AM AT AT AU AZ BA BB BG BR BY CA CH CN CU CZ CZ DE DE
DK DK EE EE ES FI FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU
LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SK TJ TM TR TT UA
UG US UZ VN KE LS MW SD SZ UG AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK
ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN
TD TG

Main International Patent Class: A61L-027/00

Publication Language: English

Fulltext Word Count: 3554

English Abstract

A macroporous composite for use as a bone reconstruction material and consisting of a combination of synthetic aragonite and at least one medicinal substance such as an antibiotic in particular, is disclosed. A method for making a composite by preparing a mixture including synthetic aragonite grains and at least one pore-forming agent, compacting the mixture and heating the resulting material to remove the pore-forming agent, at least one medicinal substance being added before or after the removal of the pore-forming agent, is also disclosed.

4/3,AB/10 (Item 6 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00278146

USE OF A CALCIUM CARBONATE BASED POROUS MATERIAL AS SUPPORT FOR A GROWTH
FACTOR IN THE PREPARATION OF A BIOABSORBABLE IMPLANT
UTILISATION D'UN MATERIAU POREUX A BASE DE CARBONATE DE CALCIUM COMME
SUPPORT POUR UN FACTEUR DE CROISSANCE DANS LA PREPARATION D'UN IMPLANT
BIORESORBABLE

Patent Applicant/Assignee:

INOTEB,
PATAT Jean-Louis,
OUHAYOUN Jean-Pierre,

Inventor(s):

PATAT Jean-Louis,
OUHAYOUN Jean-Pierre,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9426322 A1 19941124
Application: WO 94FR565 19940511 (PCT/WO FR9400565)
Priority Application: FR 935783 19930513; FR 9313740 19931117

Designated States: AU CA JP US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: A61L-027/00

International Patent Class: A61K-48:00

Publication Language: French

Fulltext Word Count: 3321

English Abstract

Use of a calcium carbonate based porous material as support for at least one growth factor in the preparation of a bioabsorbable implant to be placed in a living animal organism, in particular a vertebrate. In the case of an osteoinductive growth factor, the implant may be a bone filler or may be placed in a conjunctive tissue where it will generate bone tissue for use as an autograft. In the case of a non-osteoinductive growth factor, the implant may be used to grow cells in vivo. It is, for

example, possible to use a hollow implant into which modified autologous cells are introduced, particularly by gene insertion. Once in place, the implant becomes an organoid correcting, for example, a dysfunction of genetic origin.

4/3,AB/11 (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00278107
USE OF PARTICLES OF A BIOCOMPATIBLE, BIOABSORBABLE CALCIUM SALT AS ACTIVE PRINCIPLE IN THE PREPARATION OF A MEDICAMENT FOR LOCAL TREATMENT OF BONE DEMINERALIZING DISEASES
UTILISATION DE PARTICULES D'UN SEL DE CALCIUM BIOCOMPATIBLE ET BIORESORBABLE COMME INGREDIENT ACTIF DANS LA PREPARATION D'UN MEDICAMENT DESTINE AU TRAITEMENT LOCAL DES MALADIES DEMINERALISANTES DE L'OS
Patent Applicant/Assignee:
INOTEB,
PATAT Jean-Louis,
CIROTTEAU Yves,
Inventor(s):
PATAT Jean-Louis,
CIROTTEAU Yves,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9426283 A1 19941124
Application: WO 94FR564 19940511 (PCT/WO FR9400564)
Priority Application: FR 935783 19930513
Designated States: AU CA JP US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
Main International Patent Class: A61K-033/10
International Patent Class: A61K-33:06; A61L-27:00
Publication Language: French
Fulltext Word Count: 2872
English Abstract

Use of at least one biocompatible, bioabsorbable calcium salt in the form of particles smaller than 8 mm as active principle in the preparation of a medicament for local treatment of bone demineralizing diseases or bone mineralization disorders by implantation thereof in the spongy portion or medullary canal of the bone, particularly for restarting the process of bone remineralization and reconstruction of the absorbed trabeculae of bone. In patients suffering from osteoporosis, for example, this treatment shows reinitialization of the remineralization process and reconstruction of the trabeculae of bone, with a considerable increase in the bone stock of the bone treated.

File 348:EUROPEAN PATENTS 1978-2002/Sep W01
File 349:PCT FULLTEXT 1983-2002/UB=20020905,UT=20020829
Set Items Description
S1 15 ACROPORA
S2 28799 IC='A61F'
S3 2 S1 AND S2
S4 13 S1 NOT S3

8/6/2 (Item 2 from file: 144)
12032955 PASCAL No.: 95-0226382
Preliminary evidence for directional allelopathic effects of the soft

coral *Sinularia flexibilis* (Alcyonacea: Octocorallia) on scleractinian
coral recruitment
1995

8/6/5 (Item 5 from file: 5)
09824259 BIOSIS NO.: 199598279177
Depth-dependent responses to solar ultraviolet radiation and oxidative
stress in the zooxanthellate coral *Acropora microphthalma*.
1995

8/6/6 (Item 6 from file: 5)
09407942 BIOSIS NO.: 199497416312
Cross-continental shelf trends in delta-13C in coral on the Great Barrier
Reef.
1994

8/6/8 (Item 8 from file: 5)
07819766 BIOSIS NO.: 000092100952
GEOGRAPHICALLY SPECIFIC RECRUITMENT AND POSTSETTLEMENT MORTALITY AS
INFLUENCES ON CORAL COMMUNITIES THE CROSS-CONTINENTAL SHELF TRANSPLANT
EXPERIMENT
1991

8/6/10 (Item 10 from file: 6)
1208321 NTIS Accession Number: PB86-101086
Effects of Turbidity on Calcification Rate, Protein Concentration and the
Free Amino Acid Pool of the Coral '*Acropora cervicornis*'
(Journal article)
c1985

8/6/11 (Item 11 from file: 6)
1190636 NTIS Accession Number: PB85-219350
Effect of Eight Outer Continental Shelf Drilling Muds on the
Calcification Rate and Free Amino Acid Pool of the Coral '*Acropora*
cervicornis'
(Journal article)
c1984

8/6/12 (Item 12 from file: 6)
1124017 NTIS Accession Number: PB84-212851
Importance of Monitoring Metabolic Recovery in the Coral '*Acropora*
cervicornis' after Short-Term Exposure to Drilling Muds: Calcification Rate
and Protein Concentration
(Journal article)
c1984

8/6/13 (Item 13 from file: 6)
1118148 NTIS Accession Number: PB84-196096
Recovery by the Coral '*Acropora cervicornis*' After Drilling Mud
Exposure: The Free Amino Acid Pool
(Journal article)
c1984

8/6/14 (Item 14 from file: 35)
865720 ORDER NO: AAD84-27560
HISTOCOMPATIBILITY BIOASSAYS FOR THE IDENTIFICATION OF CLONES IN CORAL AND

SPONGE POPULATIONS

Year: 1984

8/6/15 (Item 15 from file: 6)
1027531 NTIS Accession Number: PB83-181560
Physiological Effects of Drilling Muds on Reef Corals
Mar 83

8/6/16 (Item 16 from file: 5)
03609479 BIOSIS NO.: 000074025056
RELEASE AND UPTAKE OF AMMONIA NITRATE AND ORTHO PHOSPHATE BY SOME CORALS
1981

8/6/17 (Item 17 from file: 73)
01139560 EMBASE No: 1978270117
Diurnal productivity and apparent sup 1sup 4C-calcification in the
staghorn coral, *Acropora acuminata*
1978

8/6/18 (Item 18 from file: 6)
0739184 NTIS Accession Number: PB-289 290/9/XAB
The Behavior of Heterotypic Resting Schools of Juvenile Grunts
(Pomadasyidae)
cl Apr 77

8/6/19 (Item 19 from file: 6)
0807027 NTIS Accession Number: AD-A080 111/8/XAB
Comparative Growth Rates of Some Reef Corals in the Caribbean
(Final rept)
Feb 68

8/6/20 (Item 20 from file: 77)
4628684
Supplier Accession Number: 02-00395 V30N01
Gene structure and larval expression of the empty spiracles ortholog,
EMX-AM, in reef-building coral, *Acropora millepora* (Cnidaria; Anthozoa)

8/6/21 (Item 21 from file: 77)
4599133
Supplier Accession Number: 01-05429 V29N05
Gene structure and larval expression of the empty spiracles ortholog,
emx-Am, in the anthozoan cnidarian, *Acropora millepora*

8/7/1 (Item 1 from file: 5)
DIALOG(R)File 5: Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.
12025162 BIOSIS NO.: 199900305681
Natural coral as bone graft in experimental dogs - Histopathological
studies.
AUTHOR: Murthy BN Shadakshara(a); Srinivas C L(a); Ranganath B N(a);
Jayadevappa S M(a); Vijayasarithi S K
AUTHOR ADDRESS: (a)Department of Veterinary Surgery and Radiology,
Veterinary College, U.A.S., Bangalore, 560 024**India
JOURNAL: Journal of Veterinary and Animal Sciences 27 (2):p121-124 Dec.,
1996
ISSN: 0971-0701

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ABSTRACT: Natural coral was used to correct bone defect in nine dogs in which fracture and bone defect was created experimentally. Histopathological examinations on 4th, 10th and 16th post-operative week confirmed biocompatibility and acceptance of the graft, indicating that natural coral could be successfully employed as bone graft in orthopedic surgery, in dogs.

8/7/3 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

10333190 BIOSIS NO.: 199698788108

The ultrastructural study of the subcutaneous and the tooth extracted cavity implants of the coral.

AUTHOR: Sugaya K; Kozawa Y; Izumi H

AUTHOR ADDRESS: Nihon Univ., Sch. Dent. at Matsudo, 271 Chiba**Japan

JOURNAL: Bulletin de l'Institut Oceanographique (Monaco) 0 (SPEC. ISSUE 14 PART 3):p79-84 1995

ISSN: 0304-5722

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: The purpose of this study is to examine the fundamental tissue reaction of the coral *Porites cylindrica* as a bone substitute in subcutaneous and the extracted teeth cavity implants of rats with light- and electron-microscopy. Up to 1 week after the subcutaneous implants, the corals were surrounded with fibrous connective tissues of 1-2 layers and simultaneously with inflammatory cells. After 2 weeks, multinucleate giant cells (MGCs) forming complex processes on the coral surface, were observed around the corals. These processes were composed of the branching filopodia and the clear zone-like structure as the osteoclasts. After 3-4 weeks, the corals were surrounded with dense fibrous connective tissues including MGCs. The MGC formed complex entanglement processes with the surrounding macrophage-like cell, whose processes were partly continued between the both cytoplasms. The MGCs may arise by the fusion of macrophage-like cells. After 2 months, the corals were absorbed by MGCs and macrophages and completely disappear. The MGCs differed from osteoclasts because tartrate-resistant acid phosphatases (TRAP) activity was not observed in the MGCs. Inflammations were scarcely recognized in subcutaneous implants of the coral and were immediately absorbed in tissue. So the bioaffinity of natural coral as a bone graft substitute was excellent. In the extracted teeth cavity implants, TRAP-positive and non-positive cells were observed around the corals. Positive MGCs, lying near the bone, were similar in structure to osteoclasts, but did not form characteristic ruffled borders on the processes adjacent to the coral.

8/7/4 (Item 4 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

10331451 BIOSIS NO.: 199698786369

Natural corals used as bone graft substitutes.

AUTHOR: Guillemain G(a); Patat J-L; Meunier A(a)

AUTHOR ADDRESS: (a)Lab. Recherches Orthopediques, UA CNRS 1432, Paris**
France

JOURNAL: Bulletin de l'Institut Oceanographique (Monaco) 0 (SPEC. ISSUE 14
PART 3):p67-77 1995

ISSN: 0304-5722

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: 1) Experiments have been performed to investigate the use of coral skeletons as bone graft substitutes. Skeletal fragments of different coral genera (CaCO₃) were implanted into cortical and spongy bone defects and used to bridge transcortical resections in the femur. The implants were monitored up to 18 months. Radiographically, both cortical and spongy bone defects were at least partially filled with new bone after 8 weeks while the implants underwent continuous resorption. Coral resorption and replacement by new tissue were also observed in the transcortical resections. The process of resorption was attributed to the enzymatic attack, especially carbonic anhydrase. This was confirmed by experiments in which dogs were implanted with coral and treated daily with acetazolamide, a specific carbonic anhydrase inhibitor; the absorption appeared delayed and the resections failed to heal. 2) Rates of resorption and replacement of two Madreporian corals, Porites and Acropora, were quantified after implantation in two animal species (sheep and pig). Both corals have an identical chemical composition but differ in volume (49 ± 2% and 12 ± 4% respectively) and mean size (250 vs 500 mm) porosities. Implant resorption and new bone formation were quantified through an automatic image analysis system. Quantitative results showed that the larger porosity volume, the greater was the coral resorption as well as the new bone apposition. Large differences were found between the two animal species. Coral was found to be an osteoconductive biomaterial which acts as a scaffold for a direct osteoblastic apposition and consequently could be an interesting alternative to bone auto-, allo- or xenografts.

8/7/7 (Item 7 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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08699946 BIOSIS NO.: 199345118021

Evolution, ecology and cancer.

AUTHOR: Khudolei V V

AUTHOR ADDRESS: N.N. Petrov Res. Inst. Oncol., Acad. Med. Sci. Russ., St.
Petersburg**Russia

JOURNAL: Eksperimental'naya Onkologiya 15 (2):p3-8 1993

ISSN: 0204-3564

DOCUMENT TYPE: Literature Review

RECORD TYPE: Citation

LANGUAGE: Russian; Non-English

SUMMARY LANGUAGE: Russian; English

8/7/9 (Item 9 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

06204714 89291927 PMID: 2738087

Comparison of coral resorption and bone apposition with two natural corals of different porosities.

Guillemin G; Meunier A; Dallant P; Christel P; Pouliquen J C; Sedel L
Laboratoire de Recherches Orthopediques, U.A. CNRS 1161, Paris, France.

Journal of biomedical materials research (UNITED STATES) Jul 1989, 23
(7) p765-79, ISSN 0021-9304 Journal Code: 0112726
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Previous studies showed that natural coral implanted into bone tissue was gradually resorbed and progressively replaced by newly formed bone. The objectives of this study were to compare the fate of two Madreporian corals, Porites and Acropora, after implantation during 1 and 2 months into sheep and pig long bones. These materials are identical in composition (CaCo3) but differ in volume (49 +/- 2%, 12 +/- 4%, respectively) and mean size (250 vs. 500 microns) of porosities. The non-decalcified histological slices were observed under light microscopy. Implant resorption and new bone formation were quantified through an automatic image analysis system. Quantitative results showed that the larger the porosity volume, the greater was the coral resorption as well as the new bone apposition. Large differences were found between the two animal species. Histological findings were identical to those previously reported: implants were resorbed and progressively replaced by newly formed bone. Coral was found to be an osteoconductive biomaterial which acted as a scaffold for a direct osteoblastic apposition and consequently could be an interesting alternative to bone auto-, allo-, or xenografts.

Record Date Created: 19890804

File 155:MEDLINE(R) 1966-2002/Sep W1
File 144:Pascal 1973-2002/Sep W2
File 5:Biosis Previews(R) 1969-2002/Sep W1
File 6:NTIS 1964-2002/Sep W3
File 8:Ei Compendex(R) 1970-2002/Sep W1
File 99:Wilson Appl. Sci & Tech Abs 1983-2002/Jul
File 238:Abs. in New Tech & Eng. 1981-2002/Aug
File 65:Inside Conferences 1993-2002/Sep W2
File 77:Conference Papers Index 1973-2002/Sep
File 73:EMBASE 1974-2002/Aug W4
File 34:SciSearch(R) Cited Ref Sci 1990-2002/Sep W2
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
File 94:JICST-EPlus 1985-2002/Jul W2
File 35:Dissertation Abs Online 1861-2002/Aug

Set	Items	Description
S1	1785	ACROPORA
S2	7150378	MEDICIN? OR MEDICAL
S3	1059344	IMPLANT? OR PROSTHE??? OR ORTHO???
S4	36	S1 AND S2:S3
S5	9	S4/2002 OR S4/2001 OR S4/2000 OR S4/1999 OR S4/1998
S6	27	S4 NOT S5
S7	21	RD (unique items)
S8	21	Sort S7/ALL/PY,D

7/6/1 (Item 1 from file: 88)

04726746 SUPPLIER NUMBER: 19793306

Oxidative stress in the symbiotic sea anemone Aiptasia pulchella (Carlegan, 1943): contribution of the animal to superoxide ion production at elevated temperature.

June, 1997

WORD COUNT: 8728 LINE COUNT: 00715

7/6/2 (Item 2 from file: 88)
04084972 SUPPLIER NUMBER: 18781879
Calcification rates in corals. (includes response) (Technical Comments)
Oct 4, 1996

WORD COUNT: 2352 LINE COUNT: 00193

7/6/3 (Item 3 from file: 88)
03514436 SUPPLIER NUMBER: 16352129
Evolution of Hox genes. (homeobox genes)
Annual, 1994

WORD COUNT: 8952 LINE COUNT: 00710

File 95:TEME-Technology & Management 1989-2002/Sep W2
File 98:General Sci Abs/Full-Text 1984-2002/Jul
File 9:Business & Industry(R) Jul/1994-2002/Sep 06
File 16:Gale Group PROMT(R) 1990-2002/Sep 09
File 160:Gale Group PROMT(R) 1972-1989
File 148:Gale Group Trade & Industry DB 1976-2002/Sep 09
File 621:Gale Group New Prod.Annou.(R) 1985-2002/Sep 06
File 636:Gale Group Newsletter DB(TM) 1987-2002/Sep 09
File 441:ESPICOM Pharm&Med DEVICE NEWS 2002/Sep W1
File 20:Dialog Global Reporter 1997-2002/Sep 09
File 813:PR Newswire 1987-1999/Apr 30
File 15:ABI/Inform(R) 1971-2002/Sep 09
File 88:Gale Group Business A.R.T.S. 1976-2002/Sep 06
File 442:AMA Journals 1982-2002/Aug B1
File 444:New England Journal of Med. 1985-2002/Sep W2
File 149:TGG Health&Wellness DB(SM) 1976-2002/Sep W1

Set	Items	Description
S1	180	ACROPORA
S2	3694244	MEDICIN? OR MEDICAL
S3	269870	IMPLANT? OR PROSTHE??? OR ORTHO???
S4	11	S1 AND S2:S3
S5	8	S4/2002 OR S4/2001 OR S4/2000 OR S4/1999 OR S4/1998
S6	3	S4 NOT S5
S7	3	RD (unique items)

4/6/1 (Item 1 from file: 185)
01745683 BIOSIS No. 13400018781
High temperature induces the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral *Acropora grandis*.
1997

4/6/2 (Item 2 from file: 185)
01719919 BIOSIS No. 13300063227
Laser measurements of coral growth.
1997

4/6/3 (Item 3 from file: 185)
00548873 BIOSIS No. 11500048873
The coral genus *Acropora* (Scleractinia: Astrocoeniina: Acroporidae) in the central and southern Great Barrier Reef Province.
1978

4/6/4 (Item 1 from file: 76)
02209467 4227590
High temperature induces the synthesis of heat-shock proteins and the
elevation of intracellular calcium in the coral *Acropora grandis*
(1997)

File 185:Zoological Record Online(R) 1978-2002/Aug

File 76:Life Sciences Collection 1982-2002/Aug

File 71:ELSEVIER BIOBASE 1994-2002/Sep W1

Set	Items	Description
S1	8	ACROPORA()GRANDIS
S2	7	RD (unique items)
S3	3	S2/2002 OR S2/2001 OR S2/2000 OR S2/1999 OR S2/1998
S4	4	S2 NOT S3

1/6/1
04221963 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Organism responses to rapid change: What aquaria tell us about nature
Feb 1999
WORD COUNT: 7264

1/6/2
04221962 (USE FORMAT 7 OR 9 FOR FULLTEXT)
The physiological mechanisms of acclimatization in tropical reef corals
Feb 1999
WORD COUNT: 7919

File 484:Periodical Abs Plustext 1986-2002/Sep W1

Set	Items	Description
S1	2	ACROPORA()GRANDIS

4/6/4 (Item 1 from file: 76)

02209467 4227590

High temperature induces the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral *Acropora grandis* (1997)

File 185:Zoological Record Online(R) 1978-2002/Aug

File 76:Life Sciences Collection 1982-2002/Aug

File 71:ELSEVIER BIOBASE 1994-2002/Sep W1

Set	Items	Description
S1	8	ACROPORA()GRANDIS
S2	7	RD (unique items)
S3	3	S2/2002 OR S2/2001 OR S2/2000 OR S2/1999 OR S2/1998
S4	4	S2 NOT S3

1/6/1

04221963 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Organism responses to rapid change: What aquaria tell us about nature
Feb 1999

WORD COUNT: 7264

1/6/2

04221962 (USE FORMAT 7 OR 9 FOR FULLTEXT)

The physiological mechanisms of acclimatization in tropical reef corals
Feb 1999

WORD COUNT: 7919

File 484:Periodical Abs Plustext 1986-2002/Sep W1

Set	Items	Description
S1	2	ACROPORA()GRANDIS

L3 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:505893 HCAPLUS

DOCUMENT NUMBER: 135:286002

TITLE: The evolutionary history of the coral genus *Acropora* (Scleractinia, Cnidaria) based on a mitochondrial and a nuclear marker: reticulation, incomplete lineage sorting, or morphological convergence?

AUTHOR(S): Van Oppen, Madeleine J. H.; McDonald, Brenda J.; Willis, Bette; Miller, David J.

CORPORATE SOURCE: Biochemistry and Molecular Biology and Marine Biology, James Cook University, Townsville, 4811, Australia

SOURCE: Molecular Biology and Evolution (2001), 18(7), 1315-1329

CODEN: MBEVEO; ISSN: 0737-4038

PUBLISHER: Society for Molecular Biology and Evolution

DOCUMENT TYPE: Journal

LANGUAGE: English

AB This study examines mol. relationships across a wide range of species in the mass spawning scleractinian coral genus *Acropora*. Mol. phylogenies were obtained for 28 species using DNA sequence analyses of 2 independent markers, a nuclear intron and the mtDNA putative control region. Although the compns. of the major clades in the phylogenies based on these 2

markers were similar, there were several important differences. This, in combination with the fact that many species were not monophyletic, suggests either that introgressive hybridization is occurring or that lineage sorting is incomplete. The mol. tree topologies bear little similarity to the results of a recent cladistic anal. based on skeletal morphol. and are at odds with the fossil record. We hypothesize that these conflicting results may be due to the same morphol. having evolved independently more than once in Acropora and/or the occurrence of extensive interspecific hybridization and introgression in combination with morphol. being detd. by a small no. of genes. Our results indicate that many Acropora species belong to a species complex or syngameon and that morphol. has little predictive value with regard to syngameon compn. Morphol. species in the genus often do not correspond to genetically distinct evolutionary units. Instead, species that differ in timing of gamete release tend to constitute genetically distinct clades.

REFERENCE COUNT: 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:792660 HCAPLUS

DOCUMENT NUMBER: 130:194192

TITLE: The subcellular mechanism of the release of zooxanthellae during coral bleaching

AUTHOR(S): Fang, Lee-Shing; Wang, Jih-Terng; Lin, Ku-Lin

CORPORATE SOURCE: Inst. Marine Resources, Natl. Sun Yat-Sen University, Kaohsiung, Taiwan

SOURCE: Proceedings of the National Science Council, Republic of China, Part B: Life Sciences (1998), 22(4), 150-158
CODEN: PNBSEF; ISSN: 0255-6596

PUBLISHER: National Science Council

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The subcellular mechanism of how zooxanthellae leave the host cell of ***Acropora*** ***grandis*** under elevated temp. was investigated by using colchicine or cytochalasin D to deteriorate the action of microtubules and microfilaments, resp., N-ethylmaleimide to inhibit the activity of cytoplasmic myosin and dynein, and N-(6-aminohexyl)-5-chloro-1-naphthalene sulfoamide to antagonize calmodulin. The sensitivity of coral cells and zooxanthellae to rising temp. was also examd. indirectly by studying the occurrence of the heat-shock protein 35 kDa in them. The results showed that coral cells synthesized the heat shock protein at a lower temp. than zooxanthellae did, suggesting it could be more sensitive to heat and could trigger the algae releasing process. Immunofluorescence staining of microtubules revealed that when the cytoskeleton network was disrupted by colchicine, the release of algae was also inhibited. The drug interference data indicated that the zooxanthellae had to be transported within cells via the cytoskeleton network by motor proteins, followed by host cell breakage to complete the release process. All this information about the subcellular mechanism of the release of zooxanthellae revealed that exocytosis of the host cell is an important mechanism of coral bleaching under mild environmental stress.

REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 13:38:34 ON 09 SEP 2002)

Serial 09/446629
Searcher: Jeanne Horrigan
September 9, 2002

24

```
      FILE 'REGISTRY' ENTERED AT 13:38:43 ON 09 SEP 2002
      E ACROPORA GRANDIS/CN
      E CORAL/CN
L1      1 S E3
      FILE 'HCAPLUS' ENTERED AT 13:39:19 ON 09 SEP 2002
L2      0 S L1
L3      2 S ACROPORA GRANDIS
```

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Apr 2002

...Ornithine Carbamoyltransferase from Coral(**Acropora grandis**) and it's Zooxanthellae $\hat{A}i@A\hat{i}@The$ detected in the coral **Acropora grandis**. There were two activity fraction in...

[<http://www2.nsysu.edu.tw/MBIO/e95-5.htm>]

[similar results](#)

☐ 2. [é™³â»â®%oçç©â£«è«-æ-+ä,-è<±æ'~è!□](#)

Jan 1999

é™³â»â®%oçç©â£«è«-æ-+ä,-è<±æ'~è!□ç□šç's(**Acropora grandis**)â□šâ...±ç"Yè-»ä,-é³æ°"é...æ°"ç"²é†-âY°è½%oçç»è,,çç%o¹æ£šâ¹<ç "ç©¶...é³æ°"é... ornithine carbamoyltransferase, OCT) âœ"ç□šç's **Acropora grandis**

è□fâ□-æ¶²ä,-â□ææ™,ç™¼ç□¾â...©â£«i¼æç¶"â†é>çâ¾æçç°èâ□ä,€â£«â¾†...

[<http://www.mbi.nsysu.edu.tw/95-5.htm>]

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Jan 2001

...ææ±â°žæ•™æž~æ-¹âš>èiæâš%oèž%oè"©) ç□šç's (**Acropora grandis**)

â□šâ...±ç"Yè-»ä,-é³æ°"é...æ°"ç"²é†-æ©Yè½%oçç»è,,çç%o¹æ£šâ¹<ç "ç©¶...Ornithine Carbamo (**Acropora grandis**) and it's Zooxanthellae è'°oæ£iâ□>...

[<http://www.mbi.nsysu.edu.tw/the95.htm>]

[similar results](#)

☐ 4. [The Great Barrier Reef and the Coral Sea](#)

No date available

...hard limestone structure. During the night, the polyps willl emerge to filterfeed. **Acropora grandis** numbers of small fish, here the humbug damselfish...

[<http://www.susqu.edu/Australia/GBRCS5.html>]

[similar results](#)

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- ☐ 5. Fahrbach
Jul 2001
...of heat-shock proteins and the elevation of intracellular calcium in the coral **Acropora grandis**. Co
J. (1989). Possible impact of climate change on...
[http://www.pacinst.org/CCWildlife_f.htm]
similar results

- ☐ 6. http://www.botany.uq.edu.au/research/marine/publications/pdf/theses/saxby.PDF
May 2001
Table 1: Differences in chlorophyll a and chlorophyll c parameters and the density of dinoflagellates
following exposure to
[http://www.botany.uq.edu.au/research/marine/publications/pdf/theses/saxby.PDF]
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- ☐ 7. http://www.pacinst.org/CCWildlife.pdf
Jul 2001
Prepared by Wil Burns, Senior, Pacific Institute for Studies in
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- ☐ 8. http://www.botany.uq.edu.au/research/marine/publications/pdf/litreview/tracey.PDF...
May 2001
6. Photoinhibition: the synergistic effects of high light and elevated temperatures 11
[http://www.botany.uq.edu.au/research/marine/publications/pdf/litreview/tracey.PDF]
similar results

- ☐ 9. http://coral.aoml.noaa.gov/bib/borneman.pdf
Mar 1999
...163-74. Ayre, D.J., J.E.N. Veron, and S.L. Duffy. 1991. The corals *Acropora palifera* and *Acropora c*
ecologically distinct. Coral Reefs 10...
[http://coral.aoml.noaa.gov/bib/borneman.pdf]
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- ☐ 10. Eric Borneman
Eric Borneman, Mar 1999
...163-74. Ayre, D.J., J.E.N. Veron, and S.L. Duffy. 1991. The corals *Acropora palifera* and *Acropora c*
ecologically distinct. Coral Reefs 10...
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Imported Tonga Stony Coral Colonies **Acropora grandis**

Imported Tonga Stony Coral Colonies. See photo in Corals of Australia and the Indo-Pacific page 153 photo 1, **Acropora grandis**. Difficulty ...

www.dynamicecomorphology.com/grandisdata.htm - 3k - [Cached](#) - [Similar pages](#)

Imported Corals

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Heat-Shock Proteins and Coral Bleaching

... High temperature induces the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral **Acropora grandis**. ...

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RWSI Coral Catalog

Family: Acroporidae. Common Name: Staghorn, Scientific Name: **Acropora grandis**. Natural Habitat: Upper reef slopes. Description: Branched ...

www.rockandwaterscape.com/coral-catalog/rwsi_17Aa.html - 8k - [Cached](#) - [Similar pages](#)

Indo-Pacific Coral Index

... Staghorn Coral. Acropora gemmifera, Finger Coral. **Acropora grandis**,

Staghorn Coral. Acropora hyacinthus, Plate Coral. Acropora nobilis, ...

www.rockandwaterscape.com/coral-catalog/RWSI-CC-InPacIndex.htm - 15k - [Cached](#) - [Similar pages](#)

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CoralSearch Help

... would enter: This returns two corals: **Acropora grandis** and Hydnothophora grandis. 2. If you know some of the morphology: Goto Top. If ...

whelk.aims.gov.au/coralsearch/helpfiles/cshelp1.htm - 7k - [Cached](#) - [Similar pages](#)

LIVING REEF IMAGES (Species index)

... Stylophora pistillata. Acroporidae. Acropora formosa **Acropora grandis** Acropora latistella Acropora nastuta Acropora nobilis Acropora pulchra Acropora tumida ...

[www.livingreefimages.com/index\(d\).html](http://www.livingreefimages.com/index(d).html) - 75k - [Cached](#) - [Similar pages](#)

LIVING REEF IMAGES (Stony Corals, Hermatypic Corals - Part 1)

... Tropical Indo-Pacific. Order number: FW/01/564. Photograph by Frank Walker.

Name: **Acropora grandis** Order: Scleractinia. Family: Acroporidae. ...

www.livingreefimages.com/Page54.html - 10k - [Cached](#) - [Similar pages](#)

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AIMS Long-term Monitoring, SOP Number 1 - REEF AESTHETICS SURVEYS

... They are typified by the staghorn corals such as **Acropora grandis** and formosa.

Other branching species include Porites cylindrica and Seriatopora hystrix. ...

www.aims.gov.au/pages/research/reef-monitoring/lrm/mon-sop1/mon-sop1-10.html - 13k - [Cached](#) - [Similar pages](#)

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Coral Reefs - Responses to Temperature Stress - Summary

... (1997), who experimented with samples of the coral **Acropora grandis** taken from the hot water outlet of a nuclear power plant near Nanwan Bay, Taiwan. ...

www.co2science.org/subject/c/summaries/bleachresptemp.htm - 9k - [Cached](#) - [Similar pages](#)

1995?????

... Studies on the Taxonomy of the Crab Megalopae collected from Tungkan Coast
??? (???? ??? ???) ?? (**Acropora grandis** ...

www.mbi.nsysu.edu.tw/the95.htm - 3k - [Cached](#) - [Similar pages](#)

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Underwater laser measurements

... To date, Dr Vago has studied the short term growth dynamics of two fast growing coral species *Acropora formosa* and **Acropora grandis**. ...

www.aims.gov.au/pages/laser2.html - 7k - [Cached](#) - [Similar pages](#)

Aquarium Frontiers On-Line: Media Review

... Here, the aquarium shows the beautiful electric blue **Acropora grandis**, *Goniopora* corals and leather and soft corals that it propagates. ...

www.animalnetwork.com/fish2/aqfm/1998/sep/media/default.asp - 16k - [Cached](#) - [Similar pages](#)

Corals

... Corals - Page 3 of 24. All images copyright protected, © Doug Segar and Elaine Stamman Segar. Hard coral, **Acropora grandis** ? Hard coral, *Acropora lovelli* ? ...

www.reefimages.com/Corals/Corals2.htm - 11k - [Cached](#) - [Similar pages](#)

Acropora grandis

Genus, Species. **Acropora grandis**. Shapes. Arborescent. Common colors on the reef. Green, Blue, Purple, Dark reddish-brown, Shapes (Description). Usually staghorn-like. ...

sps.reefkeepers.org/A-grandis.html - 6k - [Cached](#)

Proceedings B: Life Sciences (v22n4)

... The subcellular mechanism of how zooxanthellae leave the host cell of **Acropora grandis** under elevated temperature was investigated by using colchicine or ...

nr.stic.gov.tw/ejournal/ProceedingB/EJ02_v22n4.htm - 20k - [Cached](#) - [Similar pages](#)

ccwildlife_f

... Huang SP, Lin KL (1997) High temperature induces the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral **Acropora grandis**. ...

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Springer LINK: Coral Reefs - Table of Contents Vol. 16 Issue 2

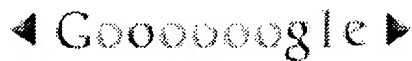
... ping Huang, Ku-lin Lin: High temperature induces the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral **Acropora grandis** ...

link.springer.de/link/service/journals/00338/tocs/t7016002.htm - 5k - [Cached](#) - [Similar pages](#)

Species List of Scleractinian Corals - [Translate this page]

... gemmifera. Acropora glauca. Acropora globiceps. Acropora gomezi. **Acropora grandis**. Acropora granulosa. Acropora haimeii. Acropora hemprichii. ...

www.biobase.org/Scleractinia/ Biobase_world_coral_list.htm - 101k - [Cached](#) - [Similar pages](#)



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[PDF] [The Subcellular Mechanism of the Release of Zooxanthellae during ...](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... ROC (Received June 24, 1998; Accepted September 8, 1998) ABSTRACT The subcellular mechanism of how zooxanthellae leave the host cell of **Acropora grandis** under ...

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[PDF] [Total net trade in wild-Appendix-II Invertebrata by taxon 1995- ...](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

Page 1. Significant trade in animals July 2001 Total net trade in wild-Appendix-II Invertebrata by taxon 1995-1999 Taxon Term Units ...

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www.darwin.museum.ru/expos/floor1/o_r12z20.htm - 3k - [Cached](#) - [Similar pages](#)

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... **Acropora grandis**. Purchased 10/15/01. A. microphthalma. The tips actually glow a brilliant baby blue but I was unable to capture it. Grows about a inch a month. ...

home.earthlink.net/~kpockell/moresps.htm - 4k - [Cached](#) - [Similar pages](#)

[PDF] [The Involvement of Calcium in Heat-induced Coral Bleaching](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... MATERIALS AND METHODS Specimens of the staghorn coral, **Acropora grandis**, were collected by scuba diving from about 6 m depth on reefs in Kenting National Park ...

www.sinica.edu.tw/zool/zoolstud/37.2/89-94.PDF - [Similar pages](#)

[Acropora nobilis](#)

... Yellow, Shapes (Description). Abundance, Common habitat. Very common, Lagoons.

Similar species. ... Degree of difficulty. n/a. Aquarium care and idiosyncrasies. Unknown. ...

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[RTF] [www.philatelicsupplies.co.uk/shells.rtf](#)

File Format: Rich Text Format - [View as HTML](#)

... Olive,etc.SG38b-50b, 5.75. Samoa 1994 Corals (4v): **acr p ra grandis**, listeri, polystoma, allingi, 3.30. Samoa 1994 Corals above optd. ...

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[Scleractinian Coral Families, Genera and Species, Acroporidae, ...](#) - [Translate this page]

... Acropora filiformis Acropora florida Acropora formosa Acropora forskali Acropora
gemmifera Acropora glauca Acropora globiceps Acropora gomezi **Acropora grandis** ...
www.sbg.ac.at/ipk/avstudio/pierofun/coral/species.htm - 40k - [Cached](#) - [Similar pages](#)

Nat'l Academy Press, Opportunities for Environmental Applications ...
... LS, Huang SP, Lin K. 1997 High temperature induces synthesis of heat-shock proteins
and the elevation of intracellular calcium in the coral **Acropora grandis**. ...
www.nap.edu/books/0309071887/html/74.html - 52k - [Cached](#) - [Similar pages](#)

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The Saltwater Hobbyist - Coral Pictures Hard Corals - [Translate this page]

... gemmifera. Acropora glauca. Acropora globieps. Acropora gomezi. **Acropora grandis**. Acropora granulosa. Acropora haimeii. Acropora hemprichii. ...

www.saltwaterhobbyist.com/corals/pictures/hardcorals.htm - 101k - [Cached](#) - [Similar pages](#)

NODC Coral Reef Data and Information

... 3 4 Acropora florida (Dana, 1846) 3 4 Acropora formosa (Dana, 1846) 3 4 Acropora gemmifera (Brook, 1892) 3 4 Acropora glauca (Brook, 1893) 3 4 **Acropora grandis** ...

www.nodc.noaa.gov/col/projects/coral/hardcoral/Hardcoralmain.html - 101k - 8 Sep 2002 - [Cached](#) - [Similar pages](#)

CorauxEspèces - [Translate this page]

... anglais = Staghorn coral). Acropora gemmifera. **Acropora grandis**. Acropora humilis. Acropora hyacinthus. Acropora kirstyae. Acropora latistella. ...

perso.wanadoo.fr/mika.dit.kl/html/CorauxEspèces.htm - 11k - [Cached](#) - [Similar pages](#)

CAAB Search Result

... [a staghorn coral] - in Aust. region (not on AFZ list) 11 291051 .. **Acropora grandis** .. [a staghorn coral] 11 291052 .. Acropora granulosa

aqua.hba.marine.csiro.au:7272/CAAB/search/caab_search.search_prepare?scitxt=Acropora%7C - 29k - [Cached](#)

[xls]Stations

File Format: Microsoft Excel 97 - [View as HTML](#)

... Total. 4, Taxon. Cover. No. Cover. No. Cover. No. Cover. No. Cover. No. 5, Acropora formosa. 375. 2. 15. 1. 210. 1. 690. 11. 1290. 15. 6, **Acropora grandis**. 0. 0. 0. 0. 1170. ...

www.personal.rdg.ac.uk/~sns97aal/agristats/Coral%20Data.xls - [Similar pages](#)

The Great Barrier Reef and the Coral Sea

... filterfeed. **Acropora grandis** acting as a shelter for large numbers of small fish, here the humbug damselfish (Dascyllus aruanus). ...

www.susqu.edu.au/australia/GBRCS5.html - 5k - [Cached](#)

Evolutionary and ecological physiology of heat-shock proteins

... 1997. High temperature induces the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral **Acropora grandis**. ...

pondside.uchicago.edu/~feder/MSS/bibliog.html - 101k - [Cached](#) - [Similar pages](#)

[MDB]BENTHOS DESCRIPTION GROUP1 GROUP2 GROUP3 1 AA ALGAL ASSEMBLAGE AL

...

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... FORM. 31, Acropora gemmifera. ACR GEMM. 32, Acropora glauca. ACR GLAU. 33, **Acropora grandis**. ACR GRAD. 34, Acropora granulosa. ACR GRAN. 35, Acropora ...

www.dec.ctu.edu.vn/cdrom/cd5/ReefBase/ARMDATA.MDB - [Similar pages](#)

Search by valid species - [Translate this page]

hercules.kgs.ku.edu/hexacoral/ anemone2/valid_species.cfm - 101k - 8 Sep 2002 - [Cached](#) - [Similar pages](#)

[Search by valid species](#) - [\[Translate this page\]](#)

hercules.kgs.ukans.edu/hexacoral/ anemone2/dev/valid_species.cfm - 101k - [Cached](#) - [Similar pages](#)



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[PDF]Coral Bleaching: The Synergistic Effects of Temperature and ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

Page 1. Coral Bleaching: The Synergistic Effects of Temperature and Photoinhibition Tracey Saxby coral.aoml.noaa.gov Page 2. ii Page 3. ...

www.botany.uq.edu.au/research/marine/publications/ pdffiles/litreviewtracey.PDF - [Similar pages](#)

[PDF]Photosynthetic responses of the coral Montipora digitata to cold ...

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Page 1. Photosynthetic responses of the coral Montipora digitata to cold temperature stress Tracey Saxby Page 2. Photosynthetic responses ...

www.botany.uq.edu.au/research/marine/publications/ pdffiles/thesis saxby.PDF - [Similar pages](#)

?????????

The summary for this Japanese page contains characters that cannot be correctly displayed in this language/character set.

homepage3.nifty.com/teka/new_page_28251712.htm - 6k - [Cached](#) - [Similar pages](#)

[PDF]Coral Literature

File Format: PDF/Adobe Acrobat - [View as HTML](#)

Page 1. Coral Literature Eric Borneman The following is a list of coral literature which I have accumulated over the years. There ...

www.coral.noaa.gov/bib/borneman.pdf - [Similar pages](#)

[PDF]Bibliography: Environmental Change and its Impact on Species/ ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

Page 1. Bibliography: Environmental Change and its Impact on Species/Ecosystems Prepared by Wil Burns, Senior, Pacific Institute ...

www.pacinst.org/CCWildlife.pdf - [Similar pages](#)

TAXON Request Form

... sarmentosa (TaxID 154030, info); species: Acropora togianensis (TaxID 154321, info); species: Acropora elseyi (TaxID 156433, info); species: **Acropora grandis** ...

www.dkfz-heidelberg.de/tbi/services/ taxon/gettaxon?taxid=6126 - 13k - [Cached](#)

finally some pics of my prized Acros! : Reef Central Message ...

... like it. **ACROpora GRandis**..I believe. It came in brown with blue tips, now its a nice forest green with sky blue tips. Mines came ...

www.reefcentral.com/vbulletin/ archive/1/2001/09/1/34974 - 11k - [Cached](#)

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If you like, you can repeat the search with the omitted results included.

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